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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/080,202	02/20/2002	Zaher A. Samman	US020048	9268

24737 7590 09/10/2004

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EXAMINER

NATNAEL, PAULO S M

ART UNIT PAPER NUMBER

2614

DATE MAILED: 09/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/080,202	Applicant(s) SAMMAN ET AL.	
	Examiner Paulos M. Natnael	Art Unit 2614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 9-14 is/are allowed.
- 6) ☒ Claim(s) 1,3,5 and 7 is/are rejected.
- 7) ☐ Claim(s) 2,4,6 and 8 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>6/20/03</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims **1,3,5,7** are rejected under 35 U.S.C. 103(a) as being unpatentable over George, U.S. Pat. No. 6,606,130.

Considering claim **1**, George discloses the following claimed subject matter, note;

- a) mounting optical sensors on the inside of the.. projection television receiver outside of a display screen at both lateral sides of the display screen, is met by the sensors S1-S8, fig.1;
- b) displaying a test pattern consisting of a raster center adjust pattern, is met by the test pattern displayed on Fig.1;
- c) adjusting the centering of the raster based on the outputs of the optical sensors located on the lateral sides of the display screen, is met by the disclosure that "Controllers 900 and 301 also position block M to illuminate exemplary sensor S1 by determining horizontal and vertical timing to position block M within the scanned display raster or by moving the scanned raster, or a part of the scanned raster containing the marker block M." [emphasis added by examiner] col. 3, lines 20-25

Except for;

d) the claimed "rear" projection television

Regarding d), George discloses a projection television display apparatus.

Although George does not specifically disclose "rear" projection television display, it would have been obvious to the skilled in the art to modify the system of George by providing the well known rear projection display in order to make the system more versatile and compact, because the rear projection display is designed in the same cabinet or box as opposed to the front projection display apparatus.

Considering claim 3, see rejection of claim 1;

Considering claim 5, a method for adjusting a linearity of a raster in a rear projection television receiver, said method comprising the steps: mounting optical sensors on the inside of the rear projection television receiver outside of a display screen at the top and bottom of the display screen; displaying a test pattern consisting of a raster projection pattern; and adjusting the linearity of the raster based on the outputs of the optical sensors located at the top and bottom of the display screen.

See rejection of claim 1;

Considering claim 7, a method for adjusting a height of a raster in a rear projection television receiver, said method comprising the steps: mounting optical sensors on the inside of the rear projection television receiver outside of a display screen at the top and

Art Unit: 2614

bottom of the display screen; displaying a test pattern consisting of a raster projection pattern; and adjusting the height of the raster based on the outputs of the optical sensors located at the top and bottom of the display screen.

See rejection of claim 1;

Allowable Subject Matter

3. Claims **9-14** are allowable over the prior art.
4. Claims **2,4,6, and 8** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
5. The following is a statement of reasons for the indication of allowable subject matter: the prior art fails to disclose, a method for adjusting a raster geometry in a rear projection television receiver, comprising the steps of: setting the height and width controls for the raster to respective maximum values; displaying a first test pattern consisting of a raster projection pattern; measuring and storing the maximum output from said optical sensors; displaying a second test pattern consisting of a center adjust pattern; adjusting the centering of the raster based on the outputs of the optical sensors located on the lateral sides of the display screen; displaying the first test pattern; adjusting the width of the raster based on the outputs of the optical sensors located on the lateral sides of the display screen; adjusting the height of the raster based on the

outputs of the optical sensors located above and below the display screen; adjusting the linearity of the raster based on the outputs of the optical sensors located above and below the display screen; and re-adjusting the height of the raster based on the outputs of the optical sensors located above and below the display screen, as in claim 9;

An arrangement for adjusting a raster geometry in a rear projection television receiver, comprising, a controller having an input coupled to receive the digitally converted sensor output signal, a first output coupled to said sensor output selector for selecting one of the sensor output signals, a second output coupled to the video signal processing circuit for causing the video signal processing circuit to process the test pattern from the pattern generator, a third output coupled to the pattern generator for selecting one of the test patterns, and fourth outputs coupled to the control input means of the video signal processing circuit for controlling the centering, height, width and linearity of the raster generated by said one color video signal projector, wherein said controller performs the following functions: sets the height and width controls for the raster to respective maximum values; displays a first test pattern consisting of a raster projection pattern; measures and stores the maximum output from said optical sensors; displays a second test pattern consisting of a center adjust pattern; adjusts the centering of the raster based on the outputs of the optical sensors located on the lateral sides of the display screen; displays the first test pattern; adjusts the width of the raster based on the outputs of the optical sensors located on the lateral sides of the display screen; adjusts the height of the raster based on the outputs of the optical sensors located above and below the display screen; adjusts the linearity of the raster based on

Art Unit: 2614

the outputs of the optical sensors located above and below the display screen; and re-adjusts the height of the raster based on the outputs of the optical sensors located above and below the display screen, as in claim 14;

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Noguchi et al, U.S. Pat. No. 5,883,476 discloses a convergence correction system.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paulos M. Natnael whose telephone number is (703) 305-0019. The examiner can normally be reached on 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on (703) 305-4795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2614

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PMN
September 7, 2004



PAULOS M. NATNAEL
PATENT EXAMINER